

His Phe Phe Lys Met Glu Asn Leu Asn Leu Ile Lys Ala Pro Met Pro
145 150 155 160

Tyr Val Asp Ile His Asn Cys Asp Pro Ala Asn Pro Ser Glu Lys Asn
 165 170 175
 Ser Leu Ser Ile Gln Tyr Cys Gly Ser Ile Arg Ser Val Phe Leu Gly
 180 185 190
 Val Phe Ala Val Met Leu Ile Phe Ala Phe Phe Gln Lys Leu Val Thr
 195 200 205
 Ala Gly Ile Val Glu Asn Glu Trp Lys Lys Leu Cys Ser Lys Pro Lys
 210 215 220
 Ser Asp Val Val Val Leu Leu Ala Ala Glu Glu Lys Lys Glu Gln Pro
 225 230 235 240
 Ile Glu Thr Thr Glu Glu Met Val Glu Leu Thr Glu Ile Ile Ala Ser
 245 250 255
 Gln Pro Lys Lys Glu Glu Asp Ile Glu Ile Pro Val Gln Glu Glu Glu
 260 265 270
 Gly Glu Leu Glu Ile Asn Phe Ala Glu Pro Pro Gln Glu Gln Glu Ser
 275 280 285
 Ser Pro Ile Glu Asn Asp Ser Ile Pro
 290 295

<210> 2
 <211> 44
 <212> PRT
 <213> Canis familiaris

<400> 2
 Thr Ile Ser His Phe Phe Lys Met Glu Asn Leu Asn Leu Ile Lys Ala
 1 5 10 15
 Pro Met Pro Tyr Val Asp Ile His Asn Cys Asp Pro Ala Asn Pro Ser
 20 25 30
 Glu Lys Asn Ser Leu Ser Ile Gln Tyr Cys Gly Ser
 35 40

<210> 3
 <211> 1238
 <212> DNA
 <213> Canis familiaris

<400> 3
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 atcctgttca aaaaataatt cccaaaagga tgccttcagt ggtggggccct acacaaaact 180
 tcttcatgag ggaatctaag acactggggg ctgtccagat tatgaatggg ctcttcaca 240
 ttgccctagg cagcctcctg atgattcaca cggatgtctg tgcgcccac tgtataacta 300
 tgtggtaccc tctctgggga ggcattatgt tcatcatttc tggatcactc ctggcagcag 360
 cggacaaaaa ccccaggaag agtttggtca aaggaaaaat gataatgaac tcattgagcc 420

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tcttttgctgc catttctgga ataatttttt tgatcatgga catattttaat attaccattt 480
cccatTTTTTt taaaatggag aatttgaatc ttattaaagc tcccatgccca tatgttgaca 540
tacacaactg tgaccagct aacccctctg agaaaaactc tttatctata caatattgtg 600
gcagcatacg atctgttttc ttgggcgttt ttgctgtgat gctgatcttt gccttcttcc 660
agaaacttgt gacagctggc attgttgaga atgaatggaa aaaactgtgc tctaaaccta 720
aatctgatgt agttgttctg ttagctgctg aagaaaaaaa agaacagccg attgaaacaa 780
cagaagaaat ggttgagctg actgaaatag cttcccaacc aaagaaagaa gaagacattg 840
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ccacagctcg cttgcgctag ctgcgtctct ttctctcatg cagaggatgc agccattgca 1140
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acttttccct ggataaagct taaaaaaaaa aaaaaaaaaa 1238

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<210> 4
 <211> 1238
 <212> RNA
 <213> *Canis familiaris*

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<400> 4
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ccagaaaauuc aaugagugga acccucccg uagauccuau gaaaagcccu acugccaugu 120
auccuguuca aaaaauaauu cccaaaagga ugccuucagu ggugggccc uacacaaaacu 180
ucuucaugag ggaaucauag acacuggggg cuguccagau uaugaauggg cucuuccaca 240
uugcccuagg cagccuccug augauucaca cggaugucug ugcgcccac uguauaacua 300
ugugguaccc ucucugggga ggcauuauu ucaucauuuc uggaucacuc cuggcagcag 360
cggacaaaaa ccccaggaag aguugguuca aaggaaaaau gauaaugaac ucauugagcc 420
ucuugcugc cauuucugga auaauuuuu ugaucaugga cauaauuaa auuaccuuu 480
cccauuuuuu uaaaauggag aauuugaauc uuauuaaagc uccaugcca uauguugaca 540
uacacaacug ugaccagcu aacccucug agaaaaacuc uuuaucuaua caauauugug 600
gcagcauacg aucuguuuuc uugggcguuu ugcugugau gcugaucuuu gccuucucc 660
agaaacuugu gacagcuggc auuguugaga augaauggaa aaaacugugc ucuaaaccua 720
aaucugaugu aguuguucug uuagcugcug aagaaaaaaa agaacagccg auugaaacaa 780
cagaagaaa gguugagcug acugaaaauag cuucccaacc aaagaaagaa gaagacauug 840
aaaauauucc aguccaagaa gaagaagggg aacuggaaau aaacuuugca gaaccucccc 900
aggagcagga aucuucacca auagaaaacg acagcauccc uuaaguaacg uuuuucuuu 960
uguuuccuuu ucuuaggcgu uaguguucac agcuuucag agacauaucc acccuguuu 1020
ccugaggccc ccugcaggug ggccuccucc augugucucu cuggccuuug cauggaguga 1080
ccacagcucg cuugcgcuag cucgcucucu uucucucaug cagaggauug agccauugca 1140
ggaggcuaag ucgggcagcu uauuuacau acagcaaggc agacuguaau uucucacuaa 1200
acuuuucccu ggauaaagcu uaaaaaaaaa aaaaaaaaaa 1238

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<210> 5
 <211> 132
 <212> DNA
 <213> *Canis familiaris*

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<400> 5
accatttccc atttttttta aatggagaat ttgaatctta ttaaagctcc catgccatat 60
gttgacatac acaactgtga ccagctaac ccctctgaga aaaactcttt atctatacaa 120
tattgtggca gc 132

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<210> 6
<211> 43
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 6
agagagagag agaactagtc tcgagttttt tttttttttt ttt

43

<210> 7
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7
ctctttgctg ccatttctgg aat

23

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 8
tggaagaagg caaagatcag cat

23

<210> 9
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 9
tgtaaaacga cggccagt

18

<210> 10
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10
caggaaacag ctatgac 17

<210> 11
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11
ggccacgcgt cgactagtag tttttttttt ttttttt 37

<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12
ctcttttgctg ccatttctgg aat 23

<210> 13
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13
cuacuacuac uaggccacgc gtcgactagt ac 32

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 14
 gtgatgctga tctttgcctt

20

<210> 15
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 15
 ctggaagaag gcagagatca

20

<210> 16
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
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<400> 16
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23

<210> 17
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (36)..(37)
 <223> a, t, u, c, g, unknown or other

<220>
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<222> (41)..(42)
<223> a, t, u, c, g, unknown or other

<220>
<221> modified_base
<222> (46)..(47)
<223> a, t, u, c, g, unknown or other

<400> 17
cuacuacuac uagggcacgc gtcgactagt acgggnnggg nngggngg

48

<210> 18
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 18
ccagaaatgg cagcaaaga

19

<210> 19
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19
ctctttgctg ccatttctgg aat

23

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 20
tctattggtg aagattcctg

20